



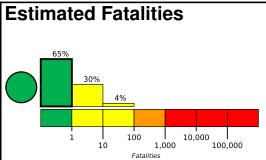


PAGER Version 3

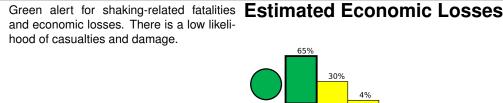
Created: 2 hours, 4 minutes after earthquake

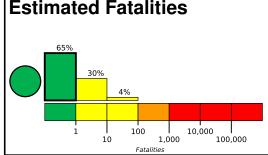
M 5.4, 9 km E of Esmeraldas, Ecuador

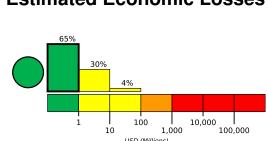
Origin Time: 2022-03-27 20:17:09 UTC (Sun 15:17:09 local) Location: 0.9460° N 79.5678° W Depth: 46.0 km



and economic losses. There is a low likeli-







Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	5,664k	445k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

population per 1 sq. km from Landscan

Population Exposure

80.4°W 79.2°W La Tola rancisco Pizarro Payan Tumaco San Jose 1.2°N a Zarate 0.1°N Pedernales

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/us7000gxqu#pager

Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are mud wall and informal (metal, timber, GI etc.) construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)	J	MMI(#)	Deaths
2000-09-20	338	5.5	VI(99k)	1
1987-09-22	276	6.3	VI(53k)	2
1987-03-06	220	7.1	IX(2k)	1k

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from G	eoNames.org	
MMI	City	Population
IV	Esmeraldas	165k
IV	Cube	<1k
IV	Muisne	13k
IV	Rosa Zarate	42k
Ш	Valdez	11k
Ш	San Lorenzo de Esmeraldas	20k
Ш	Santo Domingo de los Col-	200k
	orados	
Ш	Tumaco	87k
Ш	Tutamandahostel	140k
Ш	Ibarra	133k
Ш	Quito	1.400k

bold cities appear on map.

(k = x1000)

Event ID: us7000gxqu

^{*}Estimated exposure only includes population within the map area.